



LAKE FOREST UNIVERSITY

ANNOUNCEMENT

OF

Courses of Instruction

OF

Lake Forest College

FOR

1893-94

ANNOUNCEMENT

REQUIREMENTS FOR ADMISSION

The following requirements for admission, which are practically those heretofore announced, will hold until further announcement.

1. *English*.—The equivalent of three years of work in Grammar, Rhetoric, and studies of leading authors.

2. *History*.—History of Greece and Rome (such as found in Myer's "Ancient History" and Allen's "Rome"), of England (such as Gardiner's), and of United States (Johnston's History, or Montgomery's "Leading Facts").

3. *Mathematics*.—Higher Arithmetic, Algebra through quadratics, and Plane Geometry.

4. *Latin*.—The equivalent of four years of work, including besides the usual training in Grammar and Composition the equivalent of four books of Cæsar's "Gallic War", six orations of Cicero, six books of Vergil's "Æneid", and 1000 lines of Ovid. For the substitution of two years of laboratory science for two years of Latin see under 7.

5. *Greek*.—The equivalent of two years of work, including besides the usual training in Grammar and Composition the equivalent of three books of Xenophon's "Anabasis", and three books of Homer. For the substitution of German or French for Greek see under 6.

6. *German or French*.—Candidates may offer two years of German or French as a substitute for the Greek requirement.

7. *Science*.—A knowledge of the anatomy and physiology of the human body, such as is obtained from Martin's "Human Body." Candidates wishing to substitute science for two years

of Latin preparation must offer at least two years of laboratory work from the following subjects: Chemistry, Physics, Zoology, Botany, Geology.

REQUIREMENTS FOR GRADUATION

The College work, extending through four years, is divided into semesters. The unit of work is a semester of daily recitation, two hours of laboratory or seminary work counting as a single exercise. Each student is required to have at least fifteen recitation periods a week. Twenty-four semesters of work are required for graduation, and this work is to be arranged so as to include thirteen semesters of required work, six semesters devoted to a major subject, and five to seven semesters of elective work. The required work is chosen from different groups and is intended to secure breadth of training. The major subject is intended to secure the great benefit of advanced work in some direction. The elective work is intended to secure the privilege of collateral study under the advice of the Faculty. A fuller statement is as follows:

1. *Required work*.—The thirteen semesters of required work are as follows: Two semesters of a Classic Language; two semesters of a Modern Language; two semesters of English; one semester of Philosophy; one semester of Social Science; one semester in the department of Biblical Literature; two semesters of Mathematics; two semesters of a Laboratory Science (Chemistry, Physics, Zoology, Botany, or Geology).

2. *Major subject*.—The major subject, representing six semesters of work under the direction of a single department, is chosen from the following subjects: Greek, Latin, French, German, English, Biblical Literature, Social Science (including History), Philosophy, Mathematics, Chemistry, Physics, Zoology and Botany.

3. *Elective work*.—In addition to the required work and the major subject a sufficient number of semesters of work must be chosen to complete the total required amount of twenty-four semesters.

The only additional restrictions are:

1. That the work of the Freshman year must be made up

from the required work specified in the departments of English, Mathematics, and the various languages.

2. That students for the ministry must include in their course at least four semesters of Greek, four semesters of Latin, and two semesters in the department of Biblical Literature.

Besides the requirement made above for the Freshman year there is no specified order for the required work. After selecting a major subject at the beginning of the Sophomore year the student is under the special direction of the Professor in charge of his major.

COURSES OF INSTRUCTION

The following statement of the courses offered for 1893-94 is exceedingly brief, but is only intended to indicate the general scope of work offered. Each department which offers a major subject presents at least three years of continuous work, and in most cases elective courses within the department are offered in the advanced work.

I. DEPARTMENT OF GREEK

I. Lysias (selections) and Prose Composition; Herodotus (Book III); Homer (Iliad, Books I, IX, XI, selections from XVI-XXIV; or Odyssey, Books VI-XII). *Daily, two semesters.*

II. Greek Literature through translations. For non-classical students. *Three hours a week, second semester, in alternate years.*

III. Lyric Poets (selections); Drama (a play of each of the tragedians, and Aristophanes' *Frogs*). *Three hours a week, two semesters.*

IV. Historians: Herodotus, Thucydides, Polybius. *Daily, first semester, in alternate years.*

V. Orators, with special study of Demosthenes. *Alternating with course IV.*

VI. Plato (Apology, Crito, and Phaedo). *Three hours a week, second semester.*

VII. Lucian. *Two hours a week, second semester.*

VIII. Pausanias (Description of Athens). *Two hours a week, first semester, in alternate years.*

Courses III, IV, V, VI, VII and VIII are open only to those who have taken Course I.

II. DEPARTMENT OF LATIN

I. Livy (Preface, Books I, XXI, XXII); Eutropius *Historia Romana*; selections from Catullus and Tibullus; Cicero *de Senectute* and *de Amicitia*; sight reading; synthetic grammar; dissertations on ancient Roman life. *Daily, two semesters.*

II. Horace (odes, satires and epistles); the lyric metres; principles of interpretation; Roman literature (B. C. 70–A. D. 14). *Daily, first semester.*

III. Tacitus (Germania and Agricola); Juvenal; Suetonius; Roman literature (A. D. 14–117). *Daily, second semester.*

IV. Seminary. Roman comedy: Plautus and Terence; historical development of Roman comedy; principles of dramatic criticism. *Two sessions a week, two semesters.*

V. Seminary. Roman oratory: Cicero's orations; study of the oration. *Two sessions a week, two semesters.*

VI. Seminary. Latin hymns and ecclesiastical Latin. *Two sessions a week, two semesters.*

VII. Seminary. Inscriptions and early Latin; the historical development of the Latin language. *Two sessions a week, two semesters.*

VIII. Teachers' Course. *Daily, two semesters.* (1894-95.

Any one, but only one, of Courses IV, V, VI, VII will be given in 1893-94. The choice will be left to the students. Course VIII will be offered only in alternate years.

III. DEPARTMENT OF FRENCH

I. Elementary grammar ; exercises ; easy reading. *Daily, first semester.*

II. Grammar ; syntax ; exercises ; reading ; conversation. *Daily, second semester.*

III. Conversation ; dictation ; paraphrasing ; sight reading. *Three hours a week, one semester.*

IV. French prose composition. *Three hours a week, one semester.*

V. Prose readings. Modern French, one of the following courses: (a) fiction, (b) drama, (c) poetry, (d) science. *Three hours a week, one semester.*

VI. Victor Hugo. *Three hours a week, one semester.*

VII. French classics : Moliere, Racine, Corneille. *Three hours a week, one semester.*

VIII. General course in French literature. *Three hours a week, one semester.*

Courses III-VIII presuppose Courses I and II.

IV. DEPARTMENT OF GERMAN

I. Elementary grammar ; exercises ; easy reading. *Daily, first semester.*

II. Grammar ; syntax ; exercises ; reading ; conversation. *Daily, second semester.*

III. Conversation ; dictation ; paraphrasing ; sight reading. *Three hours a week, one semester.*

IV. German prose composition. *Three hours a week, one semester.*

V. Prose readings. Modern German, one of the following courses : (a) fiction, (b) drama, (c) poetry, (d) science. *Three hours a week, one semester.*

VI. German classics : Goethe, Schiller, Lessing or Heine. *Three hours a week, one semester.*

VII. German classics : More difficult reading from Goethe,

Schiller, Lessing or Heine. *Three hours a week, one semester.*

VIII. General course in German literature. *Three hours a week, one semester.*

Courses III–VIII presuppose Courses I and II.

V. DEPARTMENT OF ENGLISH

I. Rhetoric and Historical Grammar. *Daily, first semester.*

II. General literature and Rhetoric. *Daily, second semester.*

III. Old English ; Middle English ; Chaucer. *Daily, first semester.*

IV. Elizabethan literature ; seventeenth century. *Daily, second semester.*

V. Addison to Tennyson. *Daily, first semester.*

VI. Addison to Tennyson ; American literature. *Daily, second semester.*

VI. DEPARTMENT OF BIBLICAL INSTRUCTION

The following statement represents two years of work, which will be increased to three and subsequently announced for those who chose the work of this department as their major. The work of this department is stated with comparative fullness, as the name does not necessarily suggest the nature of the work.

I. Old Testament History and Literature. (1) HISTORY: Hebrew story of the creation, temptation, fall, and flood, with references to the Chaldean account ; patriarchal period ; Egyptian period ; exodus ; conquest of Palestine ; judges ; development of the kingdom ; division of the tribes ; captivity and return ; Maccabean period ; prophets ; law ; development of traditionalism ; Scribes, Sadducees, Pharisees ; Essenes ; Herodian kingdom. Continuous attention will be given to contemporary nations (Chaldeans, Egyptians, Hittites, Phœnicians,

Assyrians, Babylonians, Persians, Greeks, Romans). (2) LITERATURE: Origin and relationships of Hebrew language; character of Hebrew history, poetry, and prophecy; the Pentateuchal question; divisions and growth of the Hebrew canon; authorship and genuinship of the various books. *Four hours a week, first semester.*

II. New Testament History and Literature: The beginnings of Christianity; preparation for it; Greek philosophy and religion; Roman law and life; mission of John the Baptist; life, character, teaching, and work of Christ; the apostles; founding and spread of the church during the first century; separation of Christianity from Judaism; early Christian life and institutions; origin and growth of the New Testament canon; essays required on leading topics; weekly exercise in reading the Greek New Testament. *Four hours a week, second semester.*

III. Science of Religion and Theism. (1) SCIENCE OF RELIGION: Theories of Tiel, Herbert Spencer, Max Muller, Pfeiderer, and others; Biblical conceptions and statements; natural and supernatural factors in religion; principal religions of the world. (2) THEISM: Origin and nature of the idea of God; personality of God; anti-theistic theories; proofs of the existence of God. *Four hours a week, first semester.*

IV. Evidences of Christianity: relation of theism to Christianity; miracles; nature and aim of Christianity; person of Christ; Christian ethics and essential truths; effects of Christianity on human character and life; testimony of early church fathers; force and value of testimony of the apostles; theories of anti-supernaturalists as to the origin and growth of Christianity; essays required on leading topics; weekly exercise in Hebrew. *Four hours a week, second semester.*

VII. DEPARTMENT OF POLITICAL AND SOCIAL SCIENCE

A. POLITICAL SCIENCE AND HISTORY.

I. American History (1828-1882). *Three hours a week, first semester.*

II. English History (1781-1816). *Two hours a week, first semester.*

III. English Constitutional History. *Three hours a week, second semester.*

IV. American Constitutional History. *Two hours a week, second semester.*

V. Theory of the State. *Three hours a week, first semester.*

VI. Theory of Government. *Two hours a week, first semester.*

VII. Science of Law. *Two hours a week, second semester.*

VIII. International Law. *Three hours a week, second semester.*

B. SOCIOLOGY.

I. The Village Community. *Three hours a week, first semester.*

II. Kinship and Marriage. *Two hours a week, first semester.*

III. Principles of Sociology. *Daily, second semester.*

IV. Theory of the State. *Three hours a week, first semester.*

V. Social Theory. *Two hours a week, first semester.*

VI. Science of Law. *Two hours a week, second semester.*

VII. Ethics. *Three hours a week, second semester.*

C. ECONOMICS.

I. Economic History. *Three hours a week, first semester.*

II. Principles of Economics. *Two hours a week, first semester, and three hours a week, second semester.*

III. Economic Method. *Two hours a week, second semester.*

IV. Theory of the State. *Three hours a week, first semester.*

V. Economic Theory. *Two hours a week, first semester.*

VI. Finance. *Three hours a week, second semester.*

VII. American Economic History. *Two hours a week, second semester.*

VIII. DEPARTMENT OF PHILOSOPHY

I. Psychology and Logic: General course (James's Psychology and Jevons's Elements of Logic). *Daily, one semester.*

II. Physiological Psychology, with experiments. *Two hours a week, one semester.*

III. Introduction to Philosophy. *Two hours a week, one semester.*

IV. History of Ancient Philosophy ; readings in Plato and Aristotle. *Daily, one semester.*

V. History of Philosophy from beginning of Middle Ages to Kant ; readings in Spinoza and Locke. *Daily, one semester.*

VI. History of Philosophy from Kant to the present time ; readings in Kant and Hegel. *Three hours a week, two semesters.*

VII. Ethics. *Two hours a week, two semesters.*

Course III must precede Courses IV-VII. Courses IV and V alternate with Courses VI and VII.

IX. DEPARTMENT OF PEDAGOGICS

I. History of Education, ancient, medieval and modern. *Daily, one semester.*

II. Theory and practice of teaching. *Three hours a week, one semester.*

III. Didactics. *Two hours a week, one semester.*

X. DEPARTMENT OF MATHEMATICS

I. Solid Geometry ; Algebra. *Daily, one semester.*

II. Trigonometry ; Analytic Geometry. *Daily, one semester.*

III. Calculus. *Three hours a week, first semester.*

IV. Analytic and Synthetic Geometry. *Three hours a week, first semester.*

V. Higher Algebra and Theory of Equations. *Three hours a week, first semester.*

VI. Theory of Analytic Functions. *Three hours a week, second semester.*

VII. Differential Equations. *Three hours a week, first semester.*

VIII. Selected work. *Three hours a week, second semester.*

Courses I and II represent the required work in Mathematics. Courses I, II, III, and IV must be taken in the order indicated. Courses V and VI will alternate with courses VII and VIII.

XI. DEPARTMENT OF ASTRONOMY

I. General Astronomy. *Four hours a week, first semester.* Open to students who have had Courses I and II in Mathematics.

II. Calculation of Ephemerides, etc. *Four hours a week, second semester.* Open to students who have had Courses I, II, III, and IV in Mathematics.

III. Theoretical Astronomy. *Four hours a week, two semesters.* Open to students who have had Courses I, II, III, and IV in Mathematics.

XII. DEPARTMENT OF PHYSICS

I. Elementary experimental Physics ; laboratory work. *Daily, two semesters.* Open to all students who have completed Courses I and II in Mathematics.

II. General descriptive Physics ; lectures and recitations. *Daily, two semesters.* Presupposes Course I. Students selecting Physics as their major subject will take both Course II and Course III.

III. Advanced physical measurements ; with special reference to magnetism and electricity. *Daily, two semesters.* Open to students who have completed Course I.

IV. Electrical Batteries ; a study of the mechanism, composition, and efficiency of commercial batteries ; laboratory work and reading. *Four hours a week, second semester.* Open in 1894 to students who have completed Course I in Physics, and Course II in Chemistry.

V. Original investigations. Subjects and hours to be arranged with the instructor.

XIII. DEPARTMENT OF CHEMISTRY

I. General Chemistry : laboratory course. *Daily, two semesters.*

II. Qualitative analysis : laboratory work and recitations. *Daily, two semesters.* Presupposes Course I or its equivalent.

III. Quantitative analysis : laboratory work and recitations. *Daily, two semesters.* Presupposes Course II.

IV. Organic Chemistry : lectures, recitations, and laboratory work. *Four hours a week, two semesters.* Open to students who have completed Course II.

V. Special work for advanced students. Subjects and hours to be arranged with the instructor.

XIV. DEPARTMENT OF ZOOLOGY

(ANIMAL MORPHOLOGY)

I. Introductory course in general biology : an introduction to the study of both plants and animals, and conducted by the Professors of Zoology and Botany. *Daily, first semester.* Open to all students, but required of those intending to take either Botany or Zoology as a major subject.

II. The structure of animal life : the study of a series of invertebrate types. *Daily, second semester.*

III. Vertebrate morphology, or Physiology and Histology : either course offered to students having completed Courses I and II. *Daily, first semester.*

IV. The development of animal life (embryology): lectures and practical study of eggs of amphibia and the chicken. *Daily, second semester.* Presupposes Courses I and II.

V. Theoretical Zoology : a course of reading, from original sources, upon the growth and present form of the principal theories of zoology. Presupposes Courses I, II, and IV. To be given in 1894.

VI. Special topics of investigation : for students who have selected zoology as a major, and have completed Courses I-IV. *Daily, two semesters.*

XV. DEPARTMENT OF BOTANY

I. Introductory course in general biology. For statement see Course I under Zoology. *Daily, first semester.*

II. Study of the principal plant types ; lectures and laboratory work. *Daily, second semester.*

III. Vegetable histology : laboratory work in ferns and flowering plants designed to illustrate the structure of the tissues and their arrangement in the plant organs ; lectures on the development of the tissues and on special topics in histological methods. *Daily, first semester.*

IV. Studies in general morphology and classification of flowering plants. *Daily, second semester.*

V. Plant physiology. Lectures and laboratory work. *Daily, first semester.*

VI. The fungi : lectures and laboratory work. *Daily, second semester.*

VII. Bacteriology : lectures and laboratory work. *Daily, first semester.*

VIII. Special work in the classification of Pteridophytes and Phanerogams. *Daily, two semesters.*

Courses III to VI presuppose Courses I and II. Courses VII and VIII presuppose Courses I, II, III, and IV.

XVI. DEPARTMENT OF GEOLOGY

I. Dynamic and structural geology: special study of the surface geology of Illinois; lectures, field-work, and practice in the construction of topographic and geologic maps and sections. *Daily, first semester.*

II. Paleontology: special study of the fauna of the Niagara and the plants of the Illinois Coal measures; field-work on the outcrops of the Niagara in Cook County. *Daily, second semester.*

III. Mineralogy: lectures, and laboratory work in the determination of minerals. *Daily, first semester.*

IV. Petrology: microscopic study of rock sections; field-work in collecting and classifying the boulders of the drift; lectures on optical and physical properties of crystals. *Daily, second semester.*

NOTE.—Instruction in Elocution has been provided for, and opportunities for such work will be increased as found necessary to meet all reasonable demands.

MISCELLANEOUS ANNOUNCEMENTS

THE SIX SCHOOLS which make up Lake Forest University, together with the names of the various officers from whom full information can be obtained, are as follows: *Lake Forest College* (co-educational), President John M. Coulter, Lake Forest,



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Ill.; *Ferry Hall Seminary* (for young ladies), Principal Levi Seeley, Lake Forest, Ill.; *Lake Forest Academy* (for boys), Principal Charles A. Smith, Lake Forest, Ill.; *Rush Medical College*, Professor J. H. Etheridge, 1836 Michigan Ave., Chicago, Ill.; *Chicago College of Dental Surgery*, Dr. Truman W. Brophy, 96 State St., Chicago, Ill.; *Chicago College of Law*, Elmer E. Barrett, 78 LaSalle St., Chicago, Ill.

PROVISION has been made to use Mitchell Hall as a dormitory for the young ladies of the College.

THE FALL TERM begins at 2 o'clock, September 13. 1893 ; and candidates for examination should report September 12.

JOHN M. COULTER,

President Lake Forest University.